

JC20 Rec'd PCT/PTO 02 APR 2002

FORM PTO-1300 (REV 10-94)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		02-313	U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.53) <b>10/089717</b>
INTERNATIONAL APPLICATION NO. <b>PCT/AU00/01208</b>	INTERNATIONAL FILING DATE <b>4 October 2000 (04.10.200)</b>	PRIORITY DATE CLAIMED <b>5 October 1999 (05.10.1999)</b>	
TITLE OF INVENTION <b>ELONGATE MEMBER WITH INTERCONNECTED ROTATABLE PORTIONS</b>			
APPLICANT(S) FOR DO/EO/US <b>ROBERT JOHN PANNEKOFK</b>			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"><li>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</li><li>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</li><li>3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</li><li>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</li><li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))<ol style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li><li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li><li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li></ol></li><li>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</li><li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<ol style="list-style-type: none"><li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li><li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li><li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li><li>d. <input type="checkbox"/> have not been made and will not be made.</li></ol></li><li>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li><li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li><li>10. <input checked="" type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li></ol>			
Items 11. to 16. below concern document(s) or information included:			
<ol style="list-style-type: none"><li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li><li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li><li>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li><li>14. <input type="checkbox"/> A substitute specification.</li><li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li><li>16. <input type="checkbox"/> Other items or information:</li></ol>			

page 1 of 2

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on

(Date of Deposit)

Janice I. Staton

Name and Reg. No. of Attorney

Signature

Date of Signature

<b>J.S. APPLICATION NO.</b> <b>107-089717</b>		<b>INTERNATIONAL APPLICATION NO.</b> PCT/AU00/01208		<b>ATTORNEY'S DOCKET NUMBER</b> 02-313	
17. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)):</b> Search Report has been prepared by the EPO or JPO..... \$890.00  International preliminary examination fee paid to USPTO (37 CFR 1.482) ..... \$660.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2))..     \$730.00  Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....     \$1040.00  International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4).....     \$92.00  ENTER APPROPRIATE BASIC FEE AMOUNT =     \$ 1040.00				<b>CALCULATIONS . PTO USE ONLY</b>	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 60 months from the earliest claimed priority date (37 CFR 1.492(e)). MONTHS FROM THE EARLIEST CLAIMED PRIORITY DATE				\$ - 0 -	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	<b>12</b> -20 =	<b>0</b>	X \$18	\$ - 0 -	
Independent claims	<b>1</b> -3 =	<b>0</b>	X \$84	\$ - 0 -	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)	<b>0</b>		+ \$270	\$ - 0 -	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1040.00	
Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				\$	
<b>SUBTOTAL =</b>				\$ 520.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ +	- 0 -
<b>TOTAL NATIONAL FEE =</b>				\$ 520.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$ +	- 0 -
<b>TOTAL FEES ENCLOSED =</b>				\$ 520.00	
				Amount to be refunded \$	
				charged \$	
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>520.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>02-0184</u>. A duplicate copy of this sheet is enclosed.</p>					
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:				SIGNATURE	
<b>GEORGE A. COURY</b>				George A. Coury	
<b>BACHMAN &amp; LAPOINTE, P.C.</b>				NAME	
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<b>NEW HAVEN, CT 06510-2802</b>				REGISTRATION NUMBER	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : ROBERT JOHN PANNEKOEK      Docket No.: 02-313  
Serial No.:      Examiner :  
Filed :      Art Unit :  
PCT No. : PCT/AU00/01208  
IFD : October 4, 2000  
for : ELONGATE MEMBER WITH INTERCONNECTED  
ROTATABLE PORTIONS

Suite 1201  
900 Chapel Street  
New Haven, CT 06510-2802

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents & Trademarks  
United States Patent & Trademark Office  
Washington, D.C. 20231

Dear Sir:

In the above-identified application for United States patent,  
please amend as follows.

IN THE CLAIMS

Please amend claims 3-4, 6, 8, and 10-12. Attached hereto is a  
marked copy as well as a clean copy of the amended claims.

REMARKS

Amendments have been made to the claims to remove the multiple  
dependencies in order to conform with U.S. practice. An early action  
on the merits is respectfully requested.

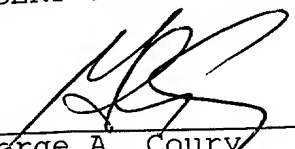
Please note that these amendments are to the claims as present in the annexes to the International Preliminary Examination Report.

If any additional fees are required in connection with this case, it is respectfully requested that they be charged to Deposit Account No. 02-0184.

Respectfully submitted,

ROBERT JOHN PANNEKOEK

By

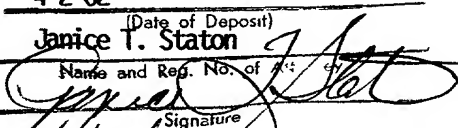
  
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CLEAN VERSION OF AMENDED CLAIMS

3. (Amended) An elongate member according to Claim 1, characterised in that the acute angle is between 30° and 60°.

4. (Amended) An elongate member according to Claim 1, characterised in that the interconnecting means includes a first plate member fixedly attached to the inner elongate member at an end remote from the base position, and a second plate member fixedly attached to the outer elongate member of an end remote from the article wherein, in use, the first plate member is located adjacent the second plate member.

6. (Amended) An elongate member according to Claim 4, characterised in that the interconnecting means includes a fixing means, the fixing means being arranged to releasably engage the first plate member and the second plate member such that, in use, when the first and second plate members are engaged by the fixing means relative rotation of the first and second elongate members is restricted.

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8. (Amended) An elongate member according to Claim 4, characterised in that the first plate member has at least one aperture, and the second plate member has at least one aperture, and wherein the aperture of the first plate member is adjacent to the aperture of the second plate member when the first elongate portion and the second elongate portion are arranged in a particular position, and wherein the interconnecting means includes a pin member arranged, in use, to locate within the aperture of the first plate and the aperture of the second plate and thus restrict relative rotation of the inner elongate member and the outer elongate member.

10. (Amended) An elongate member according to Claim 1, characterised in that the interconnecting means includes a cylindrical portion arranged to be coaxial with the axis of rotation, and wherein the cylindrical portion extends from one of the inner and outer elongate portions and wherein the other of the inner and outer portions includes an aperture arranged to receive the cylindrical portion.

11. (Amended) An elongate member according to Claim 1, characterised in that the article includes a light source.

12. (Amended) An elongate member according to Claim 1, characterised in that the inner elongate portion is arranged to be mounted to a surface at the base position.

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TITLE

ELONGATE MEMBER WITH INTERCONNECTED ROTATABLE PORTIONS

FIELD OF THE INVENTION

The invention relates to an elongate member for locating an article in a location remote from a base plane.

It is known to provide an elongate member in the form of a pole for locating an article such as a light source in a location upwardly of and remote from a base position such as on the ground or an elevated platform. Such poles are commonly used in processing plants and refineries for illuminating the plant at night.

At present, one method of servicing or replacing the articles is by incorporating into the pole means for selectively permitting the pole to pivot about a substantially horizontal axis. In this way, the pole may be manually manipulated by a user to bring a remote end of the pole and thereby the article to a location sufficiently close to the user.

However, such poles may be in excess of 2 metres in length and as a consequence it may be difficult to safely manipulate the pole. In particular, there exists a significant risk of injury to persons adjacent the pole should the pole inadvertently fall.

An alternative known method of servicing or replacing the articles is to use a ladder. However, the use of ladders is particularly problematic in processing plants and refineries as the level of activity in the plant or refinery is generally high and the risk of unintentional dislodgment of the ladder is high.

The present invention seeks, therefore, among other things, to provide an elongate member which overcomes at least some of the above mentioned disadvantages.

SUMMARY OF THE PRESENT INVENTION

In accordance with an aspect of the present invention, there is provided an elongate member for locating an article remote from a base position, characterised in that the elongate member comprises a first elongate portion, the first elongate portion extending, in use, from the base position, a second elongate portion, the second elongate portion adapted to receive the article, and interconnecting means, the interconnecting means being arranged to connect the first elongate portion to the



second elongate portion and to permit relative rotation of the first and second portions about an axis of rotation, the axis of rotation being disposed at an acute angle relative to a longitudinal axis of the first elongate portion.

### BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will now be described, by way of example only, with reference to the accompanying drawings, in which:-

Figure 1 is a diagrammatic perspective view of an elongate member in accordance with the present invention;

Figure 2 is a diagrammatic perspective view of a portion of the elongate member shown in Figure 1;

Figure 3 is a diagrammatic exploded cross sectional view of the elongate member shown in Figures 1 and 2;

Figure 4a is an upper plan view of a first plate member of an interconnecting means of the elongate member shown in Figures 1 to 3;

Figure 4b is a side view of the first plate member of Figure 4a;

Figure 5a is a lower plan view of a second plate member of an interconnecting means of the elongate member shown in Figures 1 to 3;

Figure 5b is a side view of the second plate member of Figure 5a;

Figure 6a is an upper plan view of a third plate member of an interconnecting means of the elongate member shown in Figures 1 to 3;

Figure 6b is an upper plan view of third plate member of Figure 6a;

Figure 7 is a diagrammatic cross sectional view of the elongate member shown in Figures 1, 2 and 3 with the elongate member shown in a first orientation and;

Figure 8 is a diagrammatic cross sectional view of the elongate member shown in Figures 1 and 2 with the elongate member shown in a second orientation.

### DESCRIPTION OF THE INVENTION

Referring to the drawings, there is shown an elongate member 10 for locating an article such as a light source 11 in a location upwardly of and remote from a base position 13 which may be on the ground or on an elevated platform.

In this example, the article will be taken to be a light source 11. However, it will be appreciated that other articles are envisaged, for example a flag or an antenna.

The elongate member 10 includes a first elongate portion 12, a second elongate portion 14 and interconnecting means 16 which is disposed between the first elongate portion 12 and the second elongate portion 14.

The first elongate portion 12 is substantially cylindrical in shape and is fixed at a lower end to the base position 13, and extends upwardly of the base position 13 to the interconnecting means 16.

The second elongate portion 14 is substantially cylindrical in shape and extends from the interconnecting means 16 to the light source 11.

The interconnecting means 16 includes a first plate member 18 which is fixedly connected to an upper end of the first elongate portion 12 at an acute angle relative to a longitudinal axis of the first elongate portion 12. The first plate member 18 has an upper surface 19 which faces away from the first elongate portion 12. The interconnecting means 16 further includes a second plate member 20 which is fixedly connected to a lower end of the second portion 14 at an acute angle relative to a longitudinal axis of the second portion 14. The second plate member 20 has a lower surface 21 which faces away from the second elongate portion 14. The acute angle of the first plate member 18 is preferably equal to that of the second plate member 20, and preferably is in the range 30°-60°. The interconnecting means 16 also includes a fixing means including a third plate member 22 which is separate from the first elongate portion 12 and the second elongate portion 14.

The first, second and third plate members 18, 20 and 22 are shown more particularly in Figures 4, 5 and 6. The first plate member 18 includes a first substantially square shaped portion 23 provided with a generally centrally disposed first aperture 24 and four second apertures 26 each of which is disposed adjacent a corner of the first square shaped portion 23.

The second plate member 20 includes a substantially circular shaped portion 27 and a substantially centrally disposed cylindrical portion 28. The cylindrical portion 28 is fixedly connected to the circular shaped portion 27 and extends outwardly of the lower face 21 of the second plate member 20. The outer diameter of the circular shaped portion is slightly smaller than the diameter of the first aperture 24.

5 The third plate member 22 includes a second substantially square shaped portion 30 provided with a substantially centrally disposed third aperture 32 and four fourth apertures 34 each of which is disposed adjacent a corner of the second square shaped portion 30. The third aperture 32 is of larger diameter than the second elongate portion 14. The fourth apertures 24 are of similar diameter to the second apertures 26. The first and second plate members 18, 20 fit together with the upper surface 19 of the first plate member 18 adjacent the lower surface 21 of the second plate member 20, so that the cylindrical portion 28 of the second plate member 20 engages with the first aperture 24 in the first plate member 18 as shown by the arrows A in Figure 3. 10 The third plate member 22 is placed over the second plate 20 as shown by the arrows B in Figure 3 such that the first, second and third plate members 18, 20, 22 are disposed relative to each other as best shown in Figure 7. The first, second and third plate members 18, 20, 22 are fixed relative to each other by adjustable connection means 36, in this example nut and bolt arrangements which pass through the second and fourth apertures 26, 34 in the first and third plate members 18, 22 respectively. 15 The adjustable connection means 36 act to restrict rotation of the first and third plate members 18, 22 relative to each other and to selectively permit or restrict rotation of the second plate member 20 and thereby the second elongate portion 14 about an axis perpendicular to the upper surface 19 of the first plate member 18.

20 It will be understood that when the adjustable connection means 36 are relaxed, the second plate member 20 and the second elongate portion 14 connected to the second plate member 20 are free to rotate relative to the first and third plate members 18, 22 and thereby relative to the first elongate portion 12, whilst the first and third plate members 18, 22 remain fixed relative to each other. When the adjustable connection means 36 are engaged, the second elongate portion 14 and the second plate 20 are not 25 free to rotate relative to the first and third plates 18, 22. In order to facilitate rotation, it will be understood that the diameter of the third aperture 32 is sufficiently large to permit 360° rotation of the second portion 14 free of restriction.

30 The interconnecting means 16 may include a second fixing means provided by the use of a pin member 38. In this embodiment, the second plate member 20 includes two fifth apertures 40.

The fifth apertures 40 are arranged oppositely about the cylindrical portion 28, and are substantially equidistant from the cylindrical portion 28. The distance from the fifth apertures 40 to the centre of the cylindrical portion 28 is greater than the radius of the second elongate portion 14 and less than the radius of the third aperture 32 as seen in Figure 1.

A plurality of sixth apertures 42 are provided within the first plate member 18. The sixth apertures 42 are of similar diameter to the fifth apertures 42. The distance from each sixth aperture 42 to the centre of the first aperture 24 is substantially the same as the distance from the fifth apertures 40 to the centre of the cylindrical portion 28.

The fifth and sixth apertures 40 and 42 are arranged such that when the first and second plate members are disposed at particular orientations, a fifth aperture 40 is aligned with a sixth aperture 42, thus providing a hole within which the pin member 38 may be engaged.

In normal use, the elongate member 10 locates in a first orientation as shown in Figures 1 and 7 wherein the first and second elongate portions 12, 14 are substantially parallel to each other and the light source 11 is disposed at a location relatively remote from the base position 13.

When it is desired to service or replace the light source 11, the pin member 38 is removed and the adjustable connection means 36 are released but not completely disengaged so as to permit rotation of the second plate member 20 relative to the first and third plate members 18, 22. As a result, the elongate member 10 is free to be moved by a user to a second orientation as shown in Figure 8 wherein the second elongate portion 14 is disposed at an angle, which may be substantially 90°, relative to the first elongate portion 12 and the light source 11 is located in a position closer to the base position 13. The pin member 38 may then be inserted into a fifth aperture 40 which is aligned with a sixth aperture 42.

It will be understood that by appropriate selection of the location of the interconnecting means relative to the first and second elongate portions 12, 14, the distance between the second elongate portion 14 and the base position 13 when the elongate member 10 is in the second orientation may be selected so that the second elongate portion 14 is disposed sufficiently close to the base position 13 to allow a user to service or replace the light source 11 whilst still being held sufficiently remote

from the base position 13 to avoid potential injury to persons adjacent the elongate member 10 should the fixing means fail when the elongate member 10 is in the first position.

It will be understood that in the above described example, electrical wires would be provided to supply electrical power to the light source 11. The wires may pass internally of the first and second elongate portions 12, 14 from the base position 13 to the light source 11. In this way, the wires are less likely to be damaged during use.

It will be appreciated that whilst in this embodiment the first and second elongate portions 12, 14 are substantially cylindrical, they may be formed of members of any suitably shaped cross-section, for example square shaped cross-section, the important aspect being that the outer surface of the second elongate portion 14 does not restrict rotation of the second elongate portion 14 within the third aperture 32 of the third plate member 22.

Modifications and variations as would be apparent to a skilled addressee are deemed to be within the scope of the present invention.

CLAIMS

1. An elongate member for locating an article remote from a base position, characterised in that the elongate member comprises an inner elongate portion, the inner elongate portion extending, in use, from the base position, an outer elongate portion, the outer elongate portion being arranged to receive the article, and interconnecting means, the interconnecting means being arranged to connect the inner elongate portion to the outer elongate portion and to permit relative rotation of the inner and outer portions about an axis of rotation, the axis of rotation being disposed at an acute angle relative to a longitudinal axis of the inner elongate portion.

2. An elongate member according to Claim 1, characterised in that the outer elongate portion is arranged to move between a first position whereby the outer elongate portion is substantially parallel to the inner elongate portion and a second position whereby the outer elongate portion is substantially perpendicular to the inner elongate portion.

3. An elongate member according to Claim 1 or Claim 2, characterised in that the acute angle is between 30° and 60°.

4. An elongate member according to any one of the preceding claims, characterised in that the interconnecting means includes a first plate member fixedly attached to the inner elongate member at an end remote from the base position, and a second plate member fixedly attached to the outer elongate member of an end remote from the article wherein, in use, the first plate member is located adjacent the second plate member.

5. An elongate member according to Claim 4, characterised in that the first plate member has an upper surface and the second plate member has a lower surface, the upper surface of the first plate member being adjacent the lower surface of the second plate member in use, and the axis of rotation being perpendicular to the upper surface of the first plate member.

6. An elongate member according to Claim 4 or Claim 5, characterised in that the interconnecting means includes a fixing means, the fixing means being arranged to releasably engage the first plate member and the second plate member such that, in use, when the first and second plate members are engaged by the fixing means relative rotation of the first and second elongate members is restricted.

7. An elongate member according to Claim 6, characterised in that the fixing means includes a third plate member, the third plate member including a centrally disposed aperture and being arranged to locate, in use, about the outer elongate portion and adjacent the second plate member, wherein adjustable connection means is arranged to connect the first plate member and the third plate member such that tightening of the adjustable connection means engages the fixing means.

8. An elongate member according to any one of Claims 4 to 7, characterised in that the first plate member has at least one aperture, and the second plate member has at least one aperture, and wherein the aperture of the first plate member is adjacent to the aperture of the second plate member when the first elongate portion and the second elongate portion are arranged in a particular position, and wherein the interconnecting means includes a pin member arranged, in use, to locate within the aperture of the first plate and the aperture of the second plate and thus restrict relative rotation of the inner elongate member and the outer elongate member.

9. An elongate member according to Claim 8, characterised in that the second plate member has a first aperture and a second aperture and wherein rotation of the outer elongate member relative to the inner elongate member causes an aperture of the first plate member initially adjacent the first aperture of the second plate member to be subsequently adjacent the second aperture of the second plate member.

10. An elongate member according to any one of the preceding Claims, characterised in that the interconnecting means includes a cylindrical portion arranged to be coaxial with the axis of rotation, and wherein the cylindrical portion extends

from one of the inner and outer elongate portions and wherein the other of the inner and outer portions includes an aperture arranged to receive the cylindrical portion.

11 An elongate member according to any one of the preceding Claims,  
characterised in that the article includes a light source.

12 An elongate member according to any one of the preceding claims,  
characterised in that the inner elongate portion is arranged to be mounted to a surface  
at the base position.



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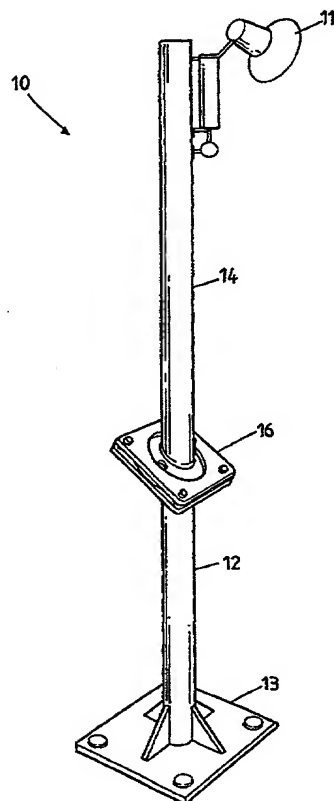
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(54) Title: **ELONGATE MEMBER WITH INTERCONNECTED ROTATABLE PORTIONS**

(57) Abstract: An elongate member (10) having a first elongate portion (12), a second elongate portion (14) and an interconnecting means (16). The interconnecting means (16) is disposed at an acute angle to the first elongate portion (12) and rotation of the second elongate portion (14) about the interconnecting means (16) allows a user access to an article (11) located at the upper end of the second elongate portion (14).



WO 01/25687 A1

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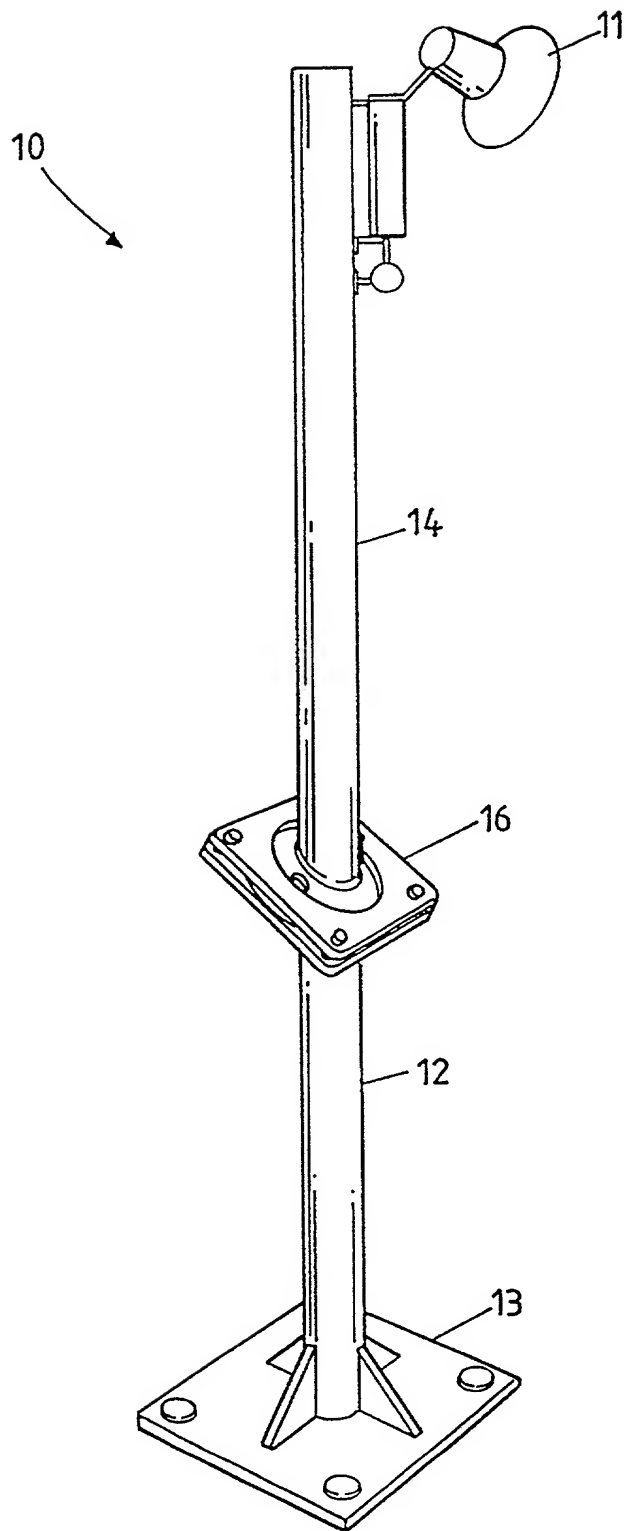


FIG.1

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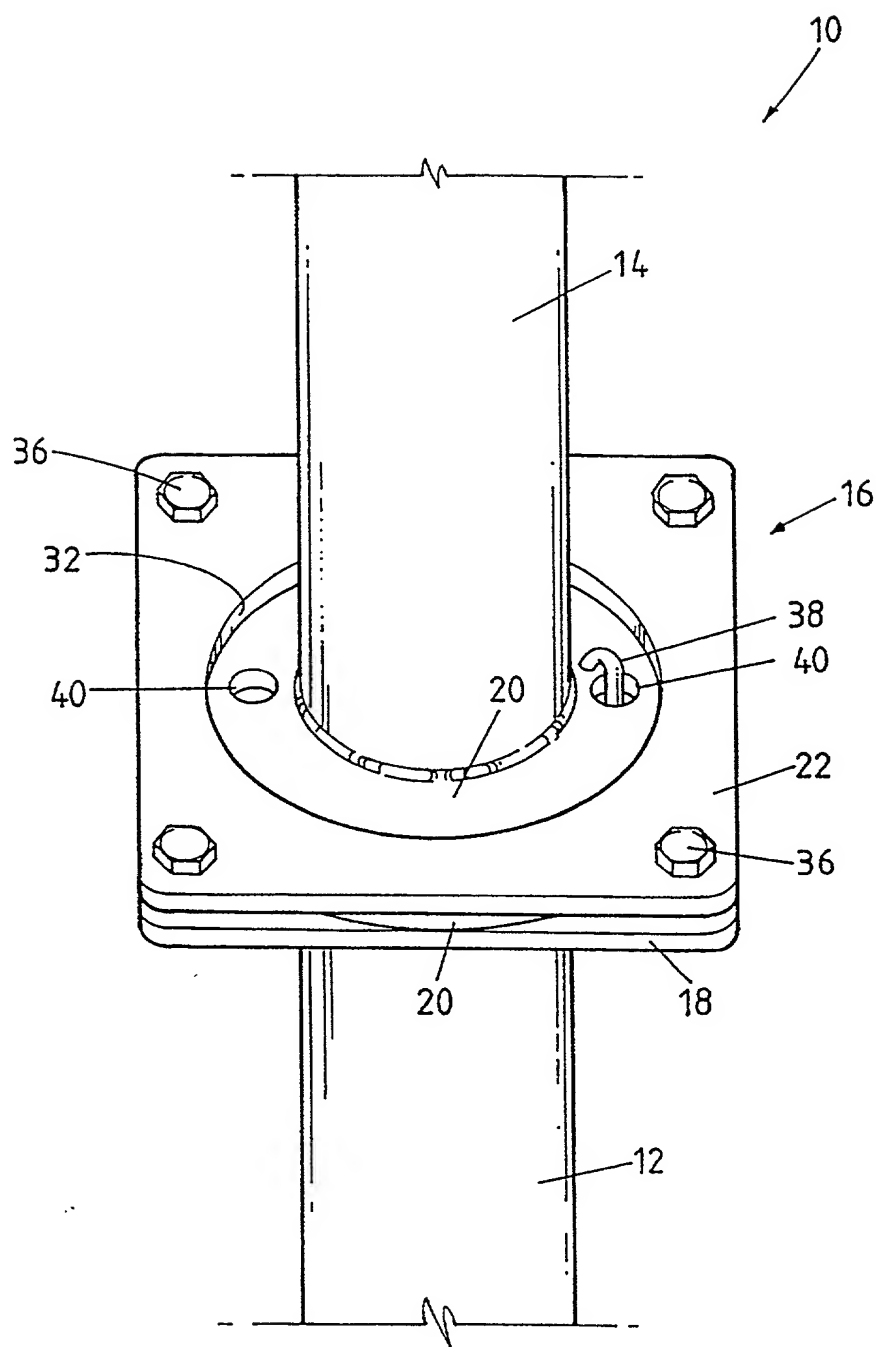


FIG. 2

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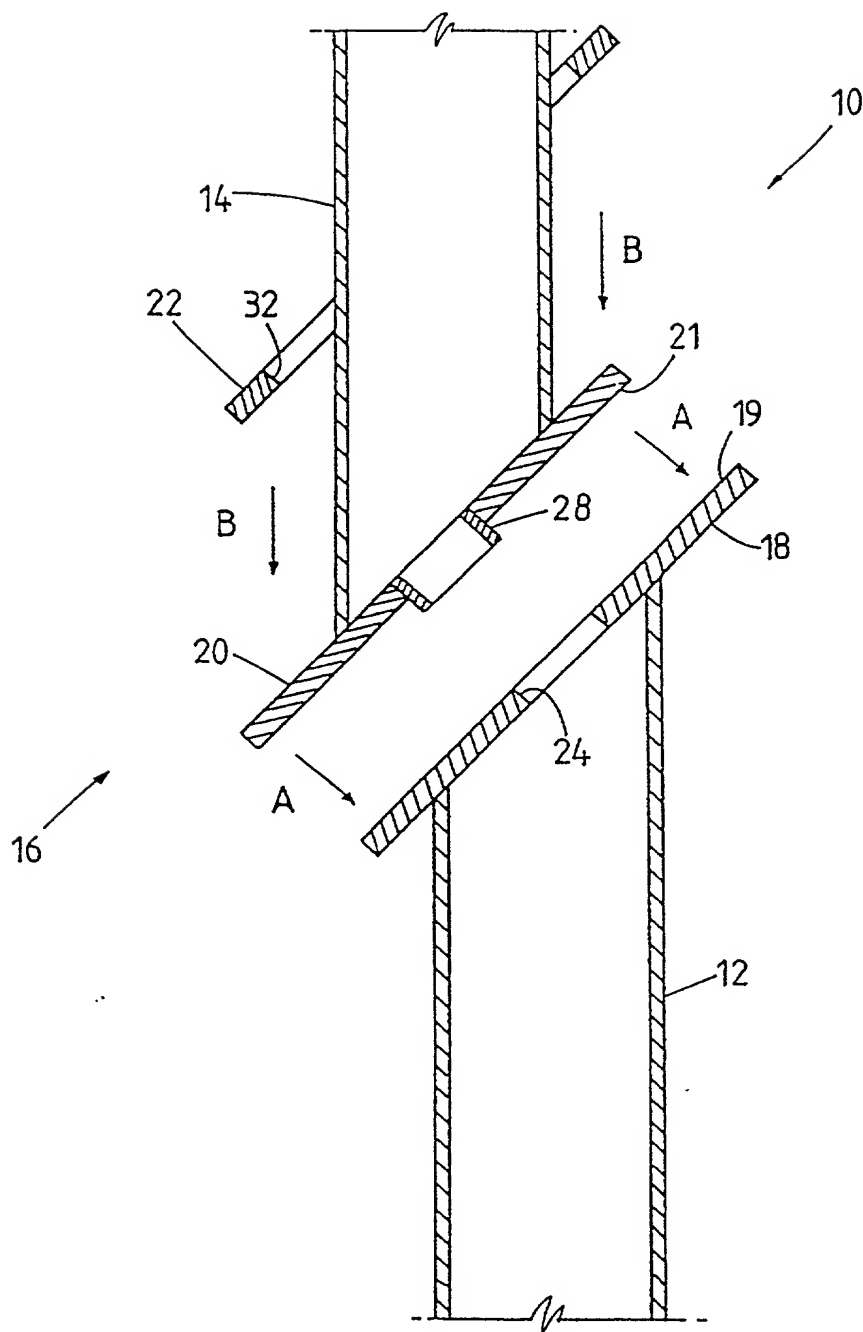


FIG. 3

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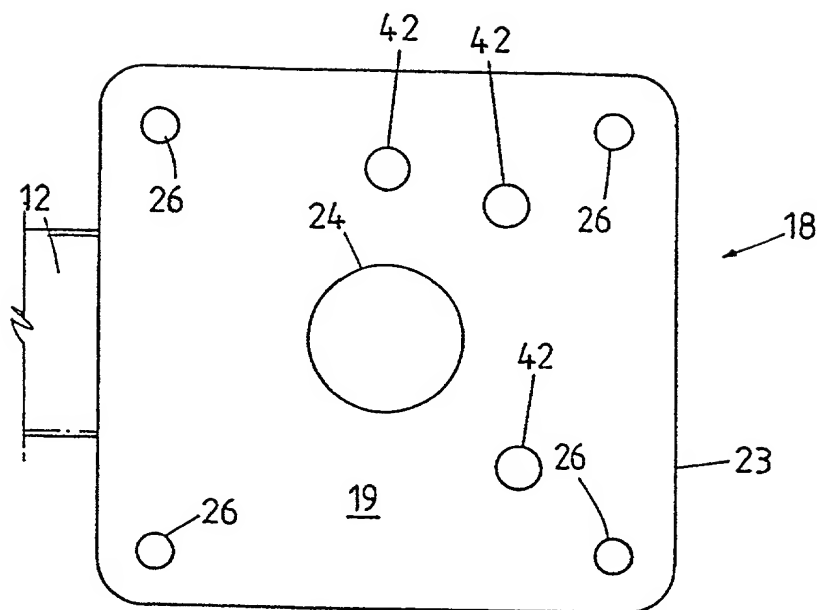


FIG. 4a

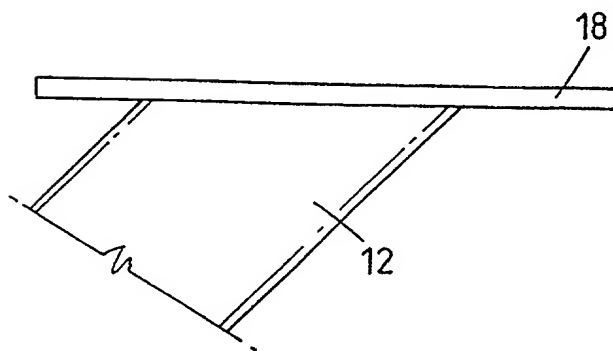


FIG. 4b

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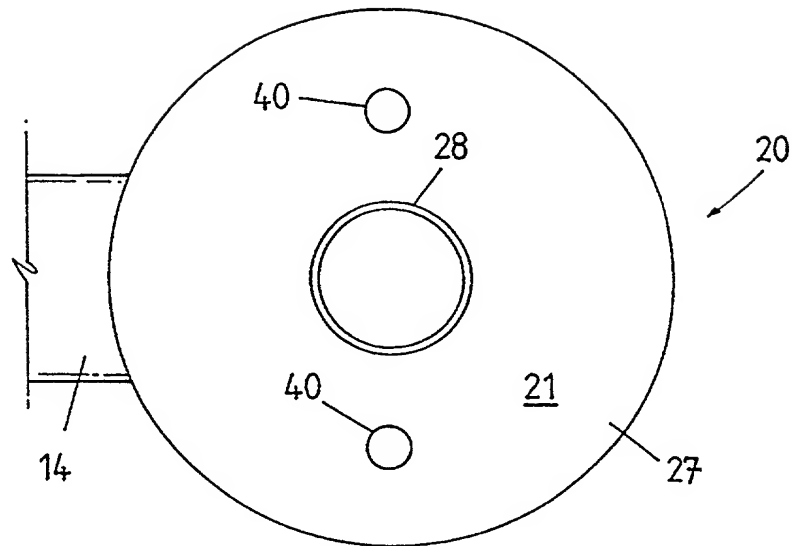


FIG. 5a

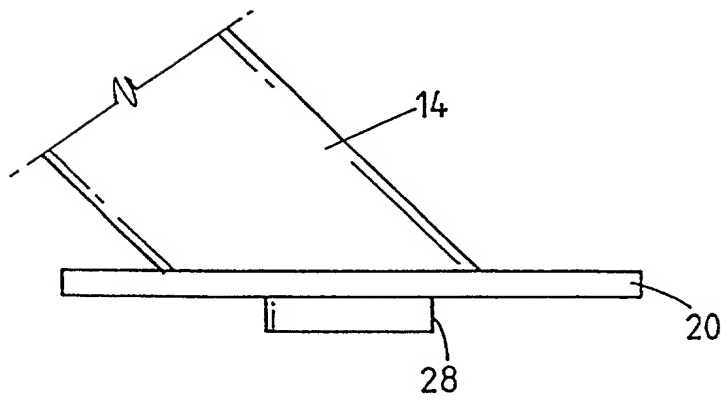


FIG. 5b

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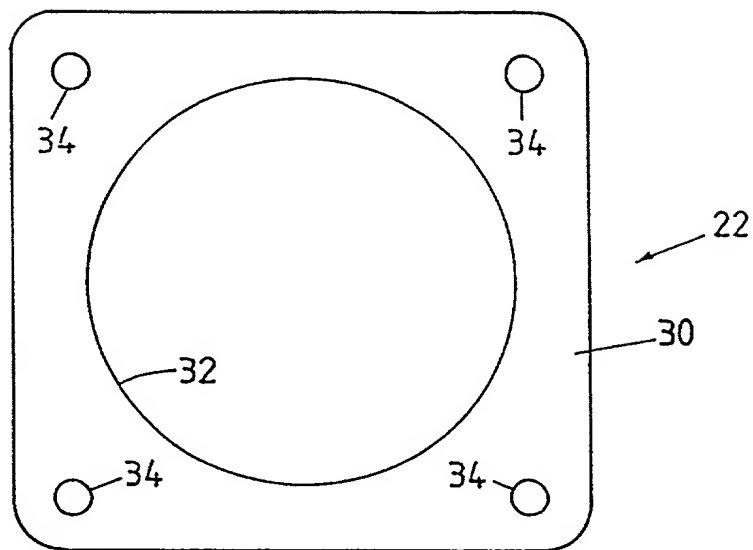


FIG. 6a

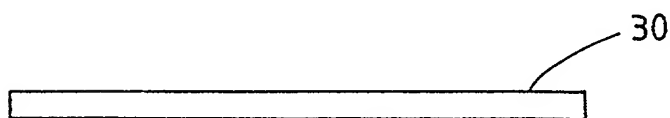


FIG. 6b

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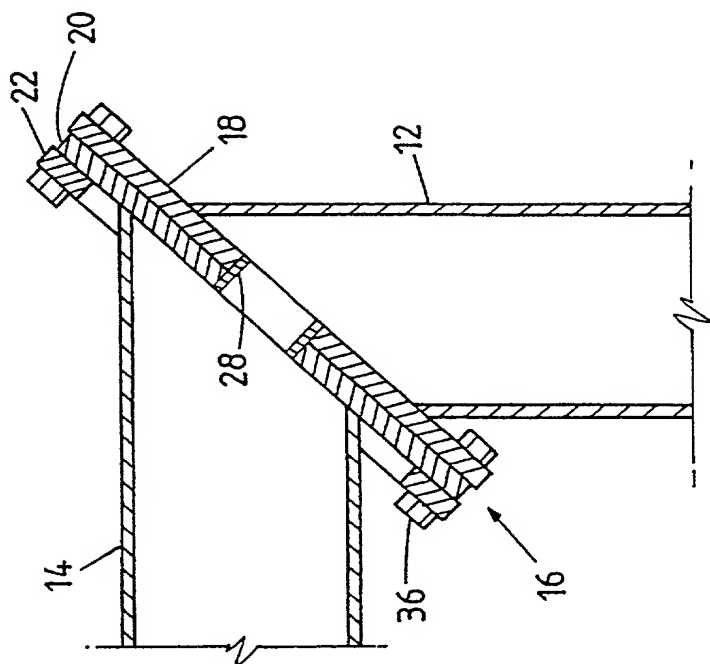


FIG. 8

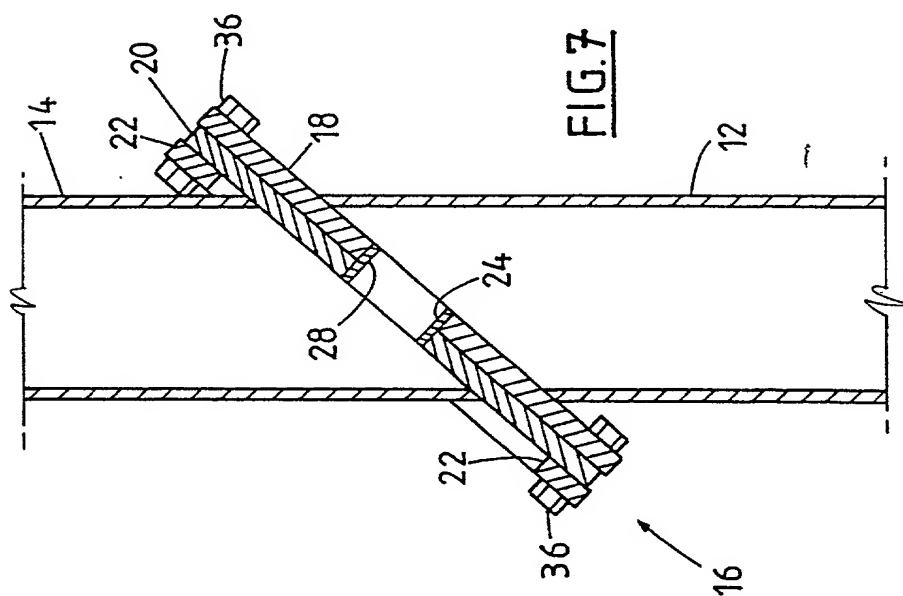


FIG. 7



SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

ROBERT

(GIVEN NAME)

JOHN

(MIDDLE INITIAL OR NAME)

PANNEKOEK

FAMILY (OR LAST NAME)

Inventor's signature

Date 28/3/02

Country of Citizenship AUSTRALIAN

Residence 21 Victoria Circle, Mandurah, Western Australia, 6210

Post Office Address 21 Victoria Circle, Mandurah, Western Australia  
6210, Australia.

Full name of second joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature

Date Country of Citizenship

Residence

Post Office Address

Full name of third joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature

Date Country of Citizenship

Residence

Post Office Address

Full name of 4th joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature

Date Country of Citizenship

Residence

Post Office Address

(Declaration and Power of Attorney [1-1]—page 4 of 5)

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

**NOTE:** If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete **ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CIP APPLICATION** for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

**POWER OF ATTORNEY**

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

Robert H. Bachman (19,374); Gregory P. LaPointe (28,395); Barry L. Kelmachter (29,999); Richard S. Strickler (18,228); and George A. Coury (34,309), all members of the firm Bachman & LaPointe, P.C.

(check the following item, if applicable)

- ☐ Attached as part of this declaration and power of attorney is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

**SEND CORRESPONDENCE TO**

Bachman & LaPointe, P.C.  
900 Chapel Street, Suite 1201  
New Haven, CT 06510

**DIRECT TELEPHONE CALLS TO:**  
(Name and telephone number)

George A. Coury  
(203) 777-6628, Ext. 113

**DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information

- ☒ which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56

(also check the following items, if desired)

- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent, and
- ☐ In compliance with this duty there is attached an information disclosure statement in accordance with 37 CFR 1.98.

## PRIORITY CLAIM (35 U.S.C. § 119)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☐ no such applications have been filed.
- (e) ☒ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the international application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

### A. PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
AU	PQ3251	5-10-1999	<input checked="" type="checkbox"/> YES    NO <input type="checkbox"/>
			<input type="checkbox"/> YES    NO <input type="checkbox"/>
			<input type="checkbox"/> YES    NO <input type="checkbox"/>
			<input type="checkbox"/> YES    NO <input type="checkbox"/>
			<input type="checkbox"/> YES    NO <input type="checkbox"/>

(Declaration and Power of Attorney [1-1]—page 2 of 5)

200974760001

Attorney's Docket No. 02-313

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION OR CIP)

As a below named inventor, I hereby declare that

**This declaration is of the following type: (check one applicable item below)**

- ☐ original
- ☐ design
- ☐ supplemental

**NOTE:** If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

- ☒
- national stage of PCT

**NOTE:** If one of the following 3 items apply, then complete and also attach **ADDED PAGES FOR DIVISIONAL, CONTINUATION OR CIP.**

- ☐ divisional
  - ☐ continuation
  - ☐ continuation-in-part (CIP)

**WARNING:** If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ELONGATE MEMBER WITH INTERCONNECTED ROTATABLE PORTIONS

the specification of which: (complete (a), (b) or (c))

- (a) ☒ Is attached hereto.
- (b) ☐ was filed on \_\_\_\_\_ as ☐ Serial No. 0 / \_\_\_\_\_  
or ☐ Express Mail No., as Serial No. not yet known \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

**NOTE:** Amendments filed after the original papers are deposited with the PTO which contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

- (c) ☒ was described and claimed in PCT International Application No. PCT/AU00/1208 filed on OCTOBER 4, 2000 and as amended under PCT Article 19 on \_\_\_\_\_ (if any).

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH  
FORM A PART OF THIS DECLARATION

- ☐ Signature for third and subsequent joint inventors. Number of pages added \_\_\_\_\_  
.....
- ☐ Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added \_\_\_\_\_  
.....
- ☐ Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added \_\_\_\_\_  
.....
- ☐ Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time (37 CFR 1.47).  
.....
- ☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.  
☐ Number of pages added \_\_\_\_\_  
.....
- ☐ Authorization of attorney(s) to accept and follow instructions from representative.  
.....

(If no further pages form a part of this Declaration, then end this Declaration with this page and check the following item.)

☒ This declaration ends with this page.